

Claims

1. An RF unit comprising a tuner (2), a demodulator (6) and a mixer (4), wherein the tuner (2) or the tuner (2) and the mixer (4) are arranged on a first substrate (7) and the mixer (4) and the demodulator (6) or the demodulator (6) are arranged on a second substrate (8), **characterized in that** the RF unit further comprises a housing (9) accommodating the first (7) and second (8) substrates on different levels of the housing (9), and that means are provided to maintain a predetermined distance between the first (7) and the second (8) substrate.
2. RF unit according to claim 1, **characterized in that** the RF unit is provided with electrically conductive interconnections (12, 14) between the first and the second substrate (7, 8).
3. RF unit according to claim 1, **characterized in that** the housing (9; 31a, 31b) is shielding electromagnetic radiation.
4. RF unit according to claim 1, **characterized in that** the first and the second substrates (7, 8) are separated by an intermediate shielding (31b).
5. RF unit according to claim 1, **characterized in that** one of the first (7) or the second (8) substrates is at least partly arranged outside the housing (9).
6. RF unit according to claim 2, **characterized in that** along at least two sides of the housing (9) linear arrangements of contacts (12, 14) are provided.
7. RF unit according to claim 2 or 6, **characterized in that** the means maintaining a predetermined distance between the first (7) and the second (8) substrate

comprise the electrically conductive interconnections and/or the contacts (12, 14).